

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,174	08/12/2005	Chuanzhong Wei	9907.8USWO	8380
23552 7590 12/31/2008 MERCHANT & GOULD PC			EXAMINER	
P.O. BOX 290	3		BOESEN, AGNIESZKA	
MINNEAPOL	IS, MN 55402-0903		ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			12/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/523,174 WEI ET AL. Office Action Summary Examiner Art Unit

earned patent term adjustment	. See 37 CFR 1.704(b).	
-------------------------------	------------------------	--

	AGNIESZKA BOESEN	1648				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA- Extensions of time may be available under the provisions of 37 CFR 1.13 and 53 C O MOVIFIES from the making date of the communication. If the provision of the provision of the communication of the communication of the communication of the provision of the provisio	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be till ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this or D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 No.	ovember 2008.					
2a)⊠ This action is FINAL . 2b)☐ This	2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.					
· - ··	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) 6-9 is/are withdrawn f	rom consideration.					
Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti		•				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents)-(d) or (f).				
Certified copies of the priority documents Certified copies of the priority documents		ion No				
Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •		Stage			
application from the International Bureau	•		- 0			
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				

Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patient Drawing Review (PTO-804) 1) Information Diselocates Exterment(s) (PTO/652/CD) Paper No(s)/Mail Date Pager No(s)/Mail Date	rO-948) Paper No	Summary (PTO-413) (s)Mail Date
S. Patent and Trademark Office		0 . (0

Application/Control Number: 10/523,174 Page 2

Art Unit: 1648

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 13, 2008 has been entered.

Claim 5 has been amended. Claims 1-5 are under consideration in this Office Action.

Claim Rejections - 35 USC § 112

Rejection of claims 1-5 under 35 U.S.C. 112, second paragraph, is withdrawn in view of Applicant's amendment.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Rejection of claims 1-5 under 35 U.S.C. 103(a) as being unpatentable over Wohlstadter et al. (US Patent 6,673,533 B1) in view of O'Connor et al. (WO200257789-A2) is maintained.

Applicant's arguments have been fully considered but fail to persuade. Applicants argue that Wohlstadter does not teach or suggest the spatial relationship of the common electrode and the microelectrode that is that the common electrode and the microelectrode should be fixed on the two opposite side surfaces of the piezoelectric chip. In response to Applicants arguments the

Art Unit: 1648

Examiner respectfully disagrees. Wohlstadter does teach that the common electrode and the microelectrode are fixed on the two opposite side surfaces of the piezoelectric chip (see Figures 1-18, particularly Figure 6A and Figure description in columns 5 and 6). Additionally, the spatial relationship of the common electrode and the microelectrode does not add any new element to the claimed piezoelectric chip and the spatial relationship of the electrodes would have been obvious to the skilled artisan absent any unexpected results. Therefore Applicant's argument is not persuasive.

Applicant amended the claims to recite that the three elements: 1) piezoelectric chip, 2) a common electrode and 3) a microelectrode array constitute a piezoelectric resonance array. Applicants amended the claims to recite that the immobilized BSE PrP antibody array forms detection sites for the BSE PrPs and that the detection of the BSE pathogen is done by measuring the resonant frequency of the detection sites. Applicants state that the claim was amended to further clarify the claimed invention. Applicants argue that neither of the cited references discloses or suggests a piezoelectric biochip used for measuring the resonant frequency. In response to Applicant's arguments, the Office notes that this limitation is viewed as an intended use and does not add any substance or any additional elements to the claimed piezoelectric chip. Thus this amendment is not sufficient to overcome the rejection. With regard to the amendment that the known elements constitute a piezoelectric resonance array, the Office notes that Applicant's amendment does not add any additional elements to the claimed piezoelectric biochip. The piezoelectric chip, a common electrode and a microelectrode array were present in the claims before the amendment and are taught by Wohlstadter and O'Connor as discussed on the record. The amendment to recite that the known elements constitute a piezoelectric resonance Art Unit: 1648

array does not add any new element to the claimed piezoelectric chip, and is considered a descriptive limitation which does not change the scope of the claimed invention. For this reason this amendment is not sufficient to overcome the present rejection.

Thus in view of the foregoing the rejection is maintained.

Conclusion

No claims are allowed.

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 1648

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AGNIESZKA BOESEN whose telephone number is (571)272-8035. The examiner can normally be reached on Monday through Friday between 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Agnieszka Boesen/

Examiner, Art Unit 1648

/Bruce Campell/

Supervisory Patent Examiner, Art Unit 1648